

- (d) transketolase;
(e) transaldolase; and
(f) phosphoglucosomerase;

wherein the substantially purified nucleic acid molecule comprises a nucleic acid sequence that hybridizes under conditions of 6.0 X sodium chloride/sodium citrate (SSC) at about 45°C, followed by a wash of 2.0 X SSC at 50°C to a nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NOs: 1, 4, 27, 225, 298, 311, 356, 569, 619 and complements thereof.

2. (Twice Amended) The substantially purified nucleic acid molecule according to claim 1, wherein said substantially purified nucleic acid molecule comprises a nucleic acid sequence selected from the group consisting of SEQ ID NOs: 1, 4, 27, 225, 298, 311, 356, 569, and 619.

10. (Amended) An isolated nucleic acid molecule comprising a sequence that hybridizes under conditions of 6.0 X sodium chloride/sodium citrate (SSC) at about 45°C, followed by a wash of 2.0 X SSC at 50°C to a nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NOs: 1, 4, 27, 225, 298, 311, 356, 569, 619 and complements thereof.

Please add the following new claims:

22. (Added) A substantially purified nucleic acid molecule that encodes a maize or soybean 6-phosphogluconate dehydrogenase comprising a nucleic acid sequence of SEQ ID NO: 14 or complement thereof.

23. (Added) A substantially purified nucleic acid molecule comprising the nucleic acid sequence of SEQ ID NO: 14 or complement thereof.

Remarks

Claims 3-9 and 14 have been canceled without prejudice to or disclaimer of the underlying subject matter. Claims 1, 2 and 10 have been amended. Claims 22 and 23